

FIG. 1

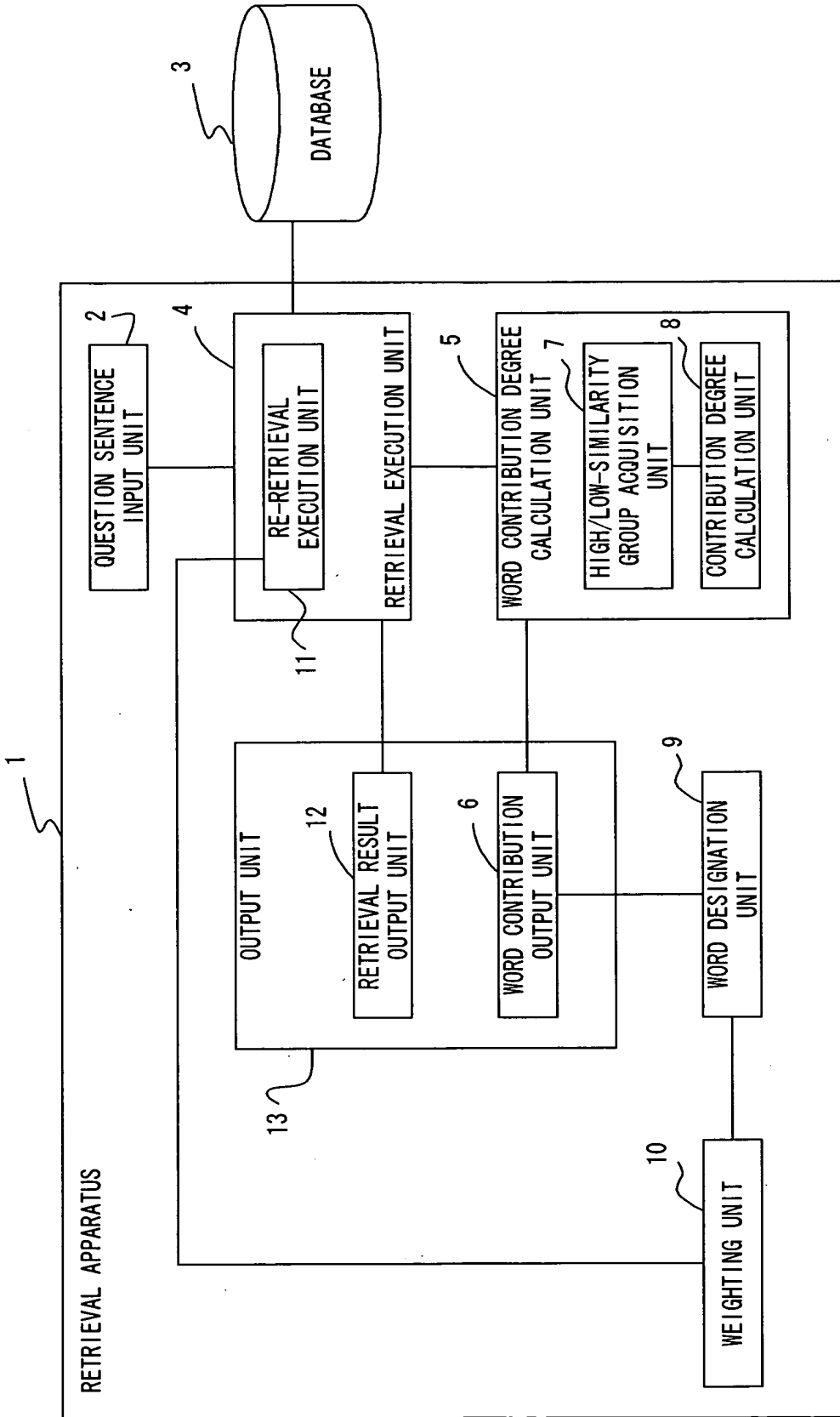


FIG. 1

FOOTNOTES

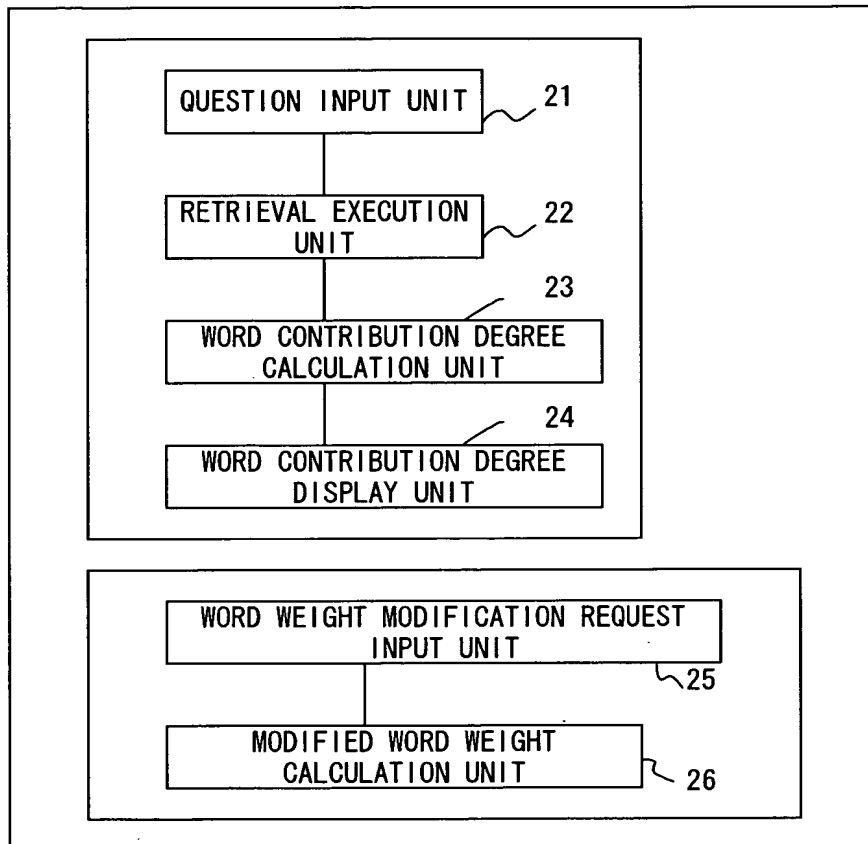


FIG. 2

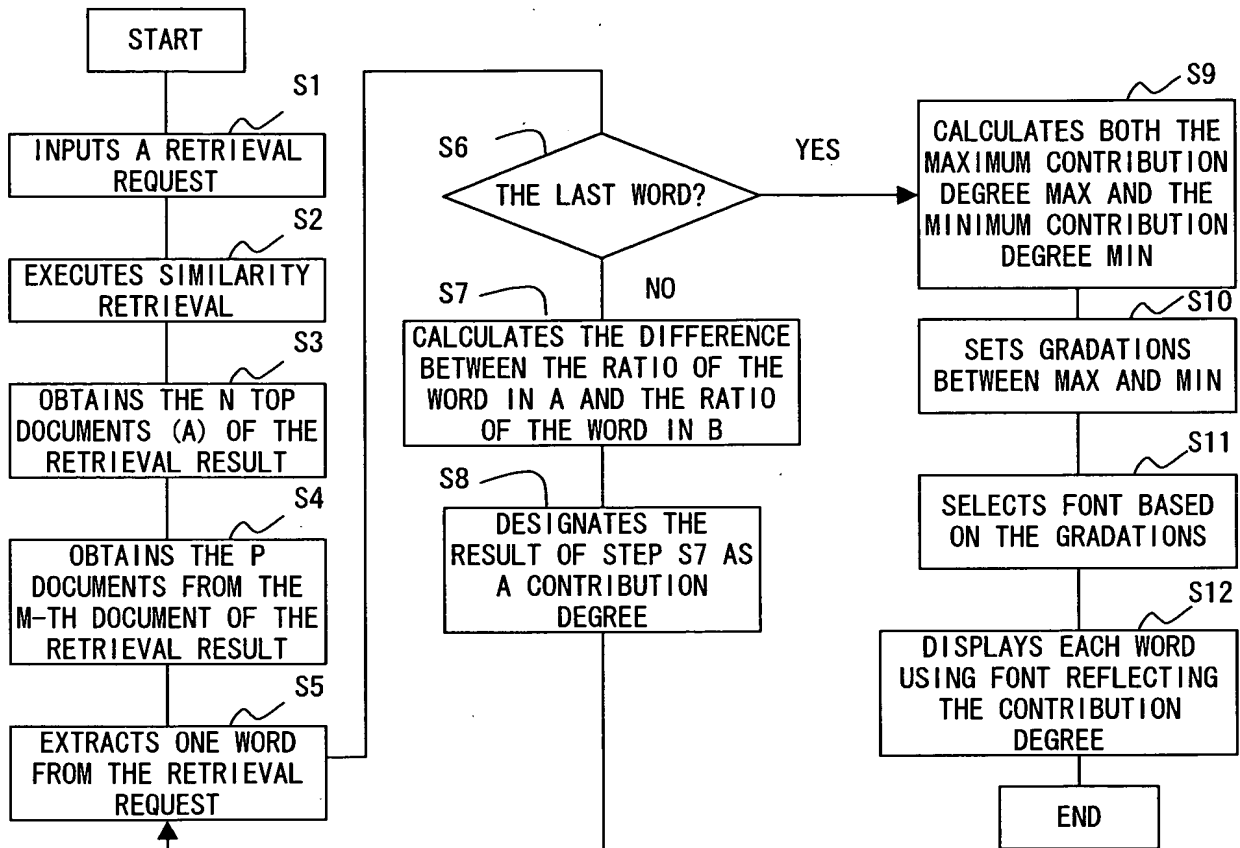


FIG. 3

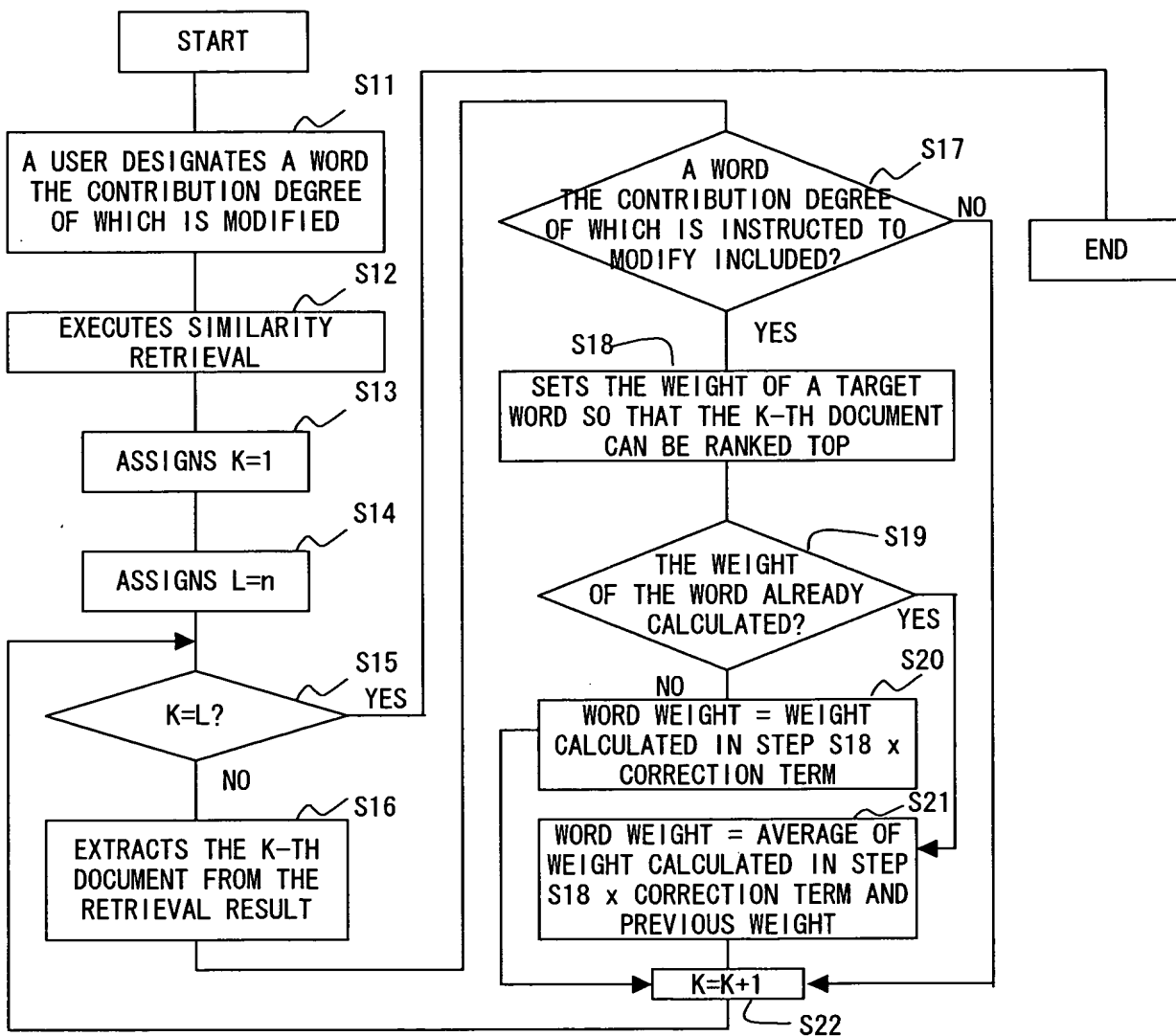
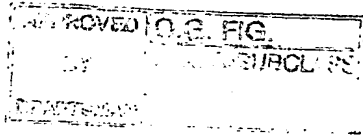


FIG. 4

TOP SECRET 6572660



- A = TOP 10 DOCUMENTS
- B = 200 DOCUMENTS FROM THE TOP 800 DOCUMENTS
- CALCULATION EXPRESSION
- CONTRIBUTION DEGREE CALCULATION EXPRESSION (Term Selection Value (Bougham formula))

$Tsv = (r/R - \alpha) * s/S * w$
 α = parameter
 $w = r/(R-r) / (n-r) / (N-n-R+r)$
 r = NUMBER OF DOCUMENTS, INCLUDING A TARGET WORD, OF A
 R = A
 n = NUMBER OF DOCUMENTS, INCLUDING A TARGET WORD
 S = B
 s = NUMBER OF DOCUMENTS, INCLUDING A TARGET WORD, OF B
 N = NUMBER OF ALL DOCUMENTS

FIG. 6

| | |
|----------|----------------|
| APPROVED | O. G. FIG. |
| BY | CLASS SUBCLASS |
| DATE | |

0994994 40994
T0607 557/550

- fuel 7.2
- methanol 6.8
- cars 6.1
- gas 5.4
- automobile 5.1
- gasoline 4.8
- natural 4.5
- powered- 3.7
- alcohol 2.4
- engines 2.2
- consumer 2.1
- passenger 2.0
- prototypes 1.6
- research 1.0
- benefits 1.0
- derived 0.9
- health 0.7
- hybrid 0.6

FIG. 7

| | | |
|----------|-----------|----------|
| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DATE | | |

| | |
|---|---|
| 1 | Fuel, methanol , cars |
| 2 | gas , automobile , gasoline , natural |
| 3 | powered , alcohol , engines , consumer , passenger |
| 4 | prototype, research, benefits, derived , health, hybrid |

FIG. 8

0094559 1000
T0600T 65572550

| | |
|---|--|
| 1 | cars <u>hybrid</u> |
| 2 | gas , automobile , gasoline , natural |
| 3 | powered , alcohol , engines , consumer , passenger |
| 4 | Fuel, <small>prototype, research, benefits, derived , health.</small> |

MAXIMIZES THE CONTRIBUTION DEGREE
OF A WORD **hybrid**

DROPS THE CONTRIBUTION DEGREE OF
A WORD **fuel**

DELETES A WORD **methanal**

FIG. 9

FIG. 9

| | Cars | hybrid | gas | automobile | gasoline | natural | powered | alcohol | fuel |
|------|------|--------|-----|------------|----------|---------|---------|---------|------|
| 1 | 5 | 0 | 1 | 1 | 3 | 1 | 2 | 1 | 5 |
| 2 | 4 | 0 | 1 | 0 | 3 | 1 | 2 | 1 | 5 |
| 3 | 3 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 3 |
| : | | | | | | | | | |
| 8 | 2 | 1 | 2 | 1 | 1 | 0 | 2 | 1 | 1 |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| : | | | | | | | | | |
| : | | | | | | | | | |
| 20 | | | | | | | | | |
| : | | | | | | | | | |
| : | | | | | | | | | |
| : | | | | | | | | | |
| 1000 | | | | | | | | | |

FIG. 10

TOP SECRET

| | Cars | hybrid | gas | automobile | gasoline | natural | powered | alcohol | fuel |
|---|------|--------|-----|------------|----------|---------|---------|---------|------|
| 1 | 5 | 0 | 1 | 1 | 3 | 1 | 2 | 1 | 5 |
| 2 | 4 | 0 | 1 | 1 | 3 | 1 | 2 | 1 | 5 |
| 3 | 3 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 3 |
| . | | | | | | | | | |
| . | | | | | | | | | |
| 8 | 2 | 1 | 2 | 1 | 1 | 0 | 2 | 1 | 1 |
| 9 | | | | | | | | | |

- CALCULATION FOR RANKING UP A DOCUMENT, INCLUDING A WORD Hybrid
 - THE SCORES OF THE TOP AND EIGHTH DOCUMENTS ARE 19 AND 11, RESPECTIVELY
 - TO RANK UP THE EIGHTH DOCUMENT TO THE TOP, MULTIPLY THE WORD Hybrid BY 9
 - WEIGHT OF THE WORD Hybrid $3 = 9 \times 1/\log(8)$
- CALCULATION FOR RANKING DOWN A DOCUMENT, INCLUDING A WORD fuel
 - THE SCORES OF THE TOP AND EIGHTH DOCUMENTS ARE 19 AND 11, RESPECTIVELY
 - TO BRING THE TOP DOCUMENT CLOSE TO THE EIGHT, SET THE WORD fuel TO 1 (THE MINIMUM)
 - WEIGHT OF THE WORD fuel $1/5 = 1/5 \times 1/\log(1)$

FIG. 11

FIG. 12

| | |
|------------|-----|
| hybrid | 5.3 |
| cars | 5.1 |
| gas | 4.8 |
| automobile | 4.6 |
| gasoline | 4.2 |
| natural | 4.1 |
| fuel | 4.1 |
| powered | 3.7 |
| prototypes | 3.4 |
| alcohol | 2.1 |
| engines | 1.3 |
| consumer | 1.1 |
| passenger | 1.0 |
| research | 0.9 |
| benefits | 0.5 |
| derived | 0.3 |
| health | 0.2 |

FIG. 12

| | | |
|-----|--------------------------------------|------------|
| • 1 | hybrid ,cars ,gas , | automobile |
| • 2 | gasoline ,natural ,fuel ,powered, | prototypes |
| • 3 | alcohol engines consumer | passenger |
| • 4 | research , benefits, derived, health | |

FIG. 13

106001 65572650

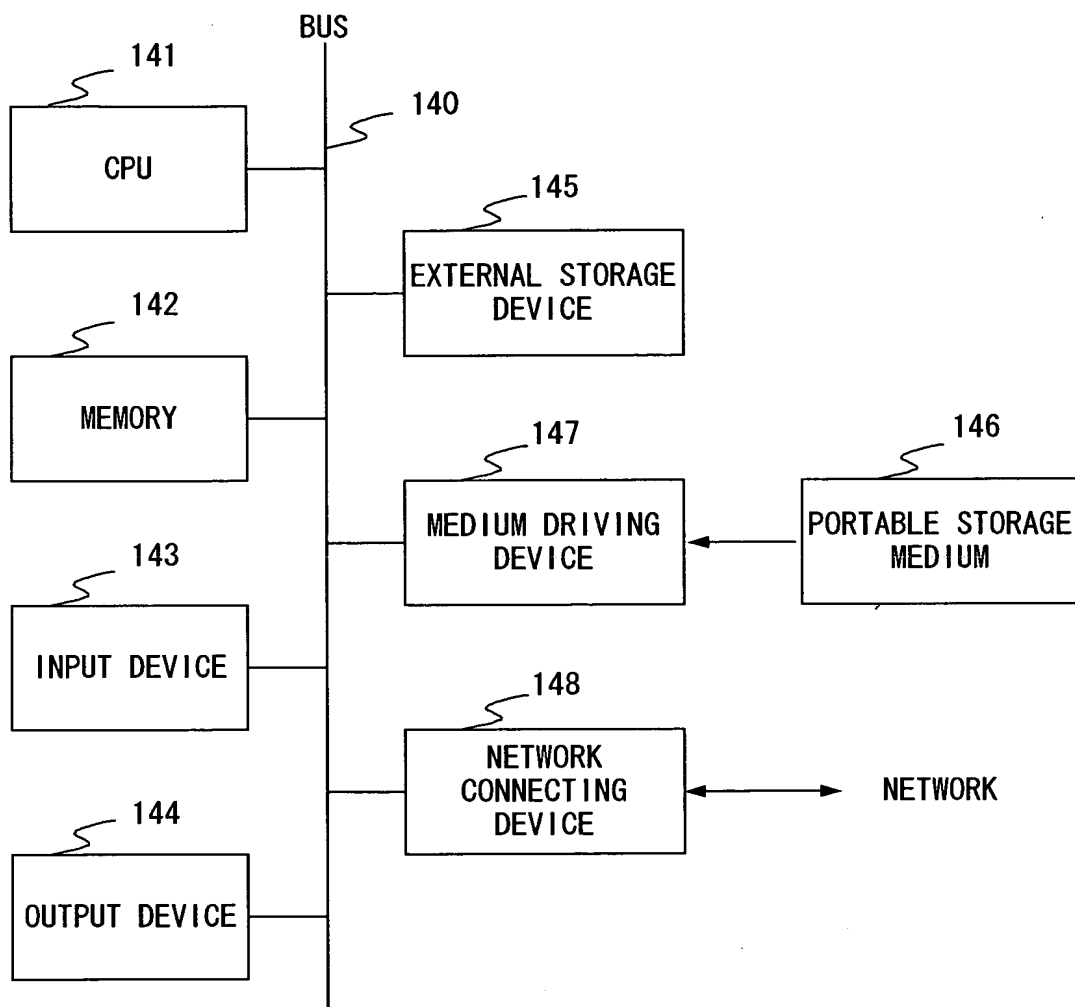


FIG. 14

FIG. 15

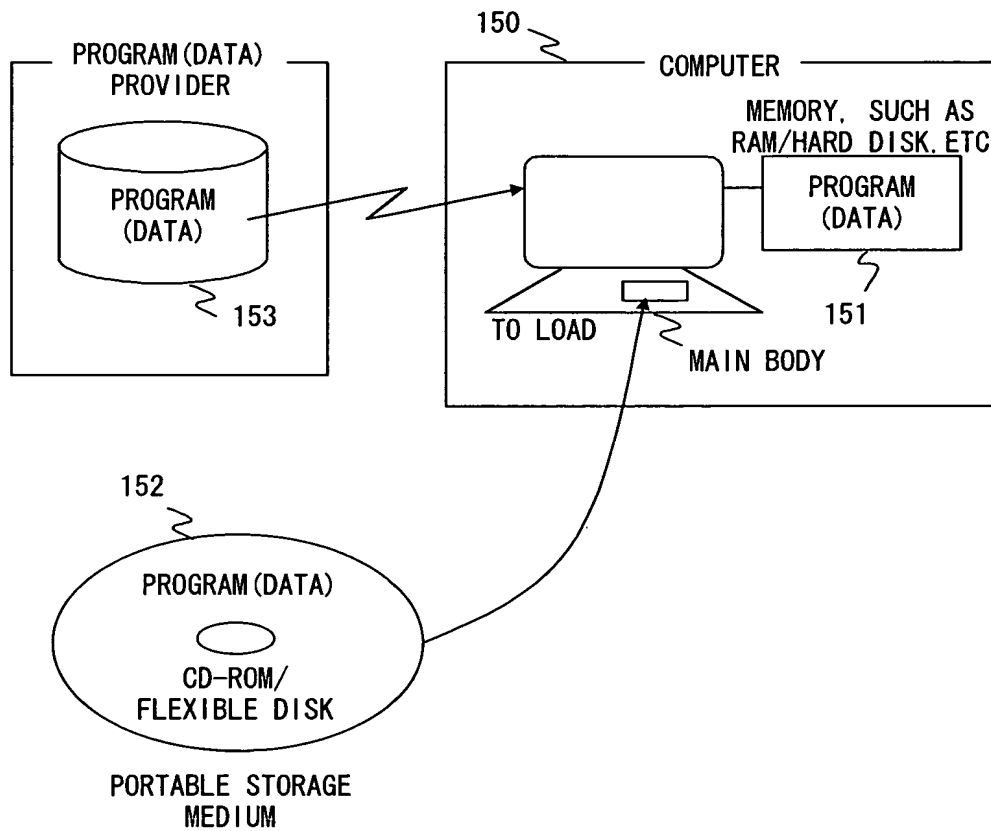


FIG. 15